

Claims 1-4 were previously withdrawn from consideration.

~~5.~~ (Previously Amended) A breakaway support post for mounting a guardrail thereon as part of a highway guardrail system comprising:
an elongated body having an upper portion and a lower portion;
a rotatable coupling assembly disposed between the upper portion and the lower portion of the elongated body;

the upper portion of the elongated body having a first end;
the lower portion of the elongated body having a second end which may be inserted into the soil adjacent to a roadway;
means for attaching the guardrail adjacent to the first end of the upper portion; and

means for releasably securing the upper portion of the elongated body in a generally collinear alignment with the lower portion of the elongated body such that an impact with one end of the attached guardrail will tend to rotate the upper portion of the elongated body relative to the lower portion of the elongated body and the breakaway support post will resist a rail face impact with the guardrail.

~~6.~~ The breakaway support post of Claim 5 wherein the rotatable coupling further comprises:

a first U-shaped bracket and a second U-shaped bracket with portions of the first bracket disposed within the second bracket; and

a pivot pin extending laterally through adjacent portions of the first bracket and the second bracket whereby the upper portion of the elongated body may rotate relative to the lower portion of the elongated body.

~~7.~~ The breakaway support post of Claim 5 wherein the upper portion of the elongated body and the lower portion of the elongated body further comprise:

a metal I-beam having a web with a pair of flanges attached thereto;

a respective bracket attached to adjacent ends of the upper portion and the lower portion; and

a pivot pin extending through the brackets and aligned approximately parallel with the web of the upper portion whereby the breakaway support post will resist a rail face impact with the guardrail.

8. (Previously Amended) The breakaway support post of Claim 5 further comprising a block affixed to the upper portion of the elongated body and adapted for mounting the guardrail to form a lateral offset between the guardrail and the breakaway support post.

9. (Previously Amended) A breakaway support post for mounting a guardrail thereon as part of a highway guardrail system comprising:
an elongated body having an upper portion and a lower portion;
the upper portion of the elongated body having a first end;
the lower portion of the elongated body having a second end;
means for attaching the guardrail adjacent to the upper portion; and
means for coupling the first end of the elongated body with the second end of the elongated body such that an impact with one end of the attached guardrail will tend to rotate the upper portion of the elongated body relative to the lower portion of the elongated body and the breakaway support post will resist a rail face impact with the guardrail.

10. (Previously Amended) The breakaway support post of Claim 9 wherein the means for coupling the first end with the second end comprises first and second breaker bars.

11. The breakaway support post of Claim 10 wherein the first and second breaker bars are formed with respective chambered surfaces to facilitate rotation of

the upper portion relative to the lower portion and to facilitate separation of the upper portion of the elongated body from the lower portion of the elongated body.

12. The breakaway support post of Claim 10 wherein the first and second breaker bars further comprising protruding members to facilitate rotation of the upper portion relative to the lower portion and to facilitate separation of the upper portion of the elongated body from the lower portion of the elongated body.

~~Claims 13-23~~ were previously withdrawn from consideration.

24. (Previously Amended) A roadway guardrail system comprising:
a guardrail;
at least one support post having an upper portion and a lower portion, the upper portion having a lower end and the lower portion having an upper end;
the upper portion being coupled to the guardrail and the lower portion being insertable into the earth;
the upper portion lower end being pivotally coupled to the lower portion by a hinge, the hinge having a pivot pin that extends in a strong direction which is substantially perpendicular to the guardrail, wherein the post exhibits a high mechanical strength in the strong direction, the hinge having a weak direction that is generally perpendicular to the strong direction, wherein the upper portion can rotate relative to the lower direction from an impact in the weak direction; and
the hinge is releasably restrained from pivoting by a shear pin, the shear pin being smaller in diameter than the pivot pin.

25. (Previously Amended) The roadway guardrail system of Claim 24 wherein the upper and lower portions each comprise an I-beam having a web and flanges, the webs of the I-beams being oriented generally perpendicular to the guardrail.

~~26.~~ The roadway guardrail system of Claim 24 wherein the hinge comprises:

a first U-shaped bracket and a second U-shaped bracket with portions of the first bracket being disposed within the second bracket; and

the pivot pin extending laterally through the first bracket and through adjacent portions of the first bracket and the second bracket whereby the upper portion of the post can rotate relative to the lower portion of the post.

~~27.~~ The roadway guardrail system of Claim 24 wherein the hinge has a first bracket coupled to the upper portion and a second bracket coupled to the lower portion, the first bracket receiving the pivot pin by a slot, the slot being oriented so that when the upper portion is rotated relative to the lower portion, the upper portion can separate from the lower portion.

Claim 28 was previously canceled.

Claim 29 was previously withdrawn from consideration.

Claim 30 was previously canceled.

Claim 31 was previously ~~with~~drawn from consideration.

~~32.~~ (Previously Amended) A support post for mounting a guardrail thereon as part of a highway guardrail system, comprising:

a first elongated member having first and second ends, with the first end of the first member adapted to receive a guardrail;

a second elongated member having first and second ends, with the first end of the second member being insertable into the ground adjacent to a roadway;

one of the second ends having a first bracket with a generally U-shaped configuration extending therefrom;

the other of the second ends having a second bracket extending therefrom;
the second bracket being received in the first U-shaped bracket;
the first and second brackets being coupled together by a pin extending along an axis substantially perpendicular to a received guardrail, wherein the first and second members are rotatably coupled; and
the first and second members being maintained in a first position by a shearable body extending between the second bracket and at least a portion of the first U-shaped bracket.

33. (Previously Amended) A support post for mounting to a guardrail as part of a highway guardrail system, comprising:

a first I-beam having first and second ends, with the first end of the first I-beam being structured and arranged to couple to the guardrail;

a second I-beam having first and second ends, with the first end of the second I-beam being insertable into the ground adjacent to a roadway;

each of the first and second I-beams having a web and flanges, with the flanges at the respective second ends having extensions protruding beyond the web;

the extensions of the first I-beam being located adjacent to the extensions of the second I-beam, the extensions of the first and second I-beams being pivotally coupled together by a hinge pin so that the first and second I-beams pivot about an axis that is parallel to the web of the first I-beam between a lengthened, substantially collinear position and a non-collinear position; and

the first and second I-beams being maintained in the lengthened position by a shearable member extending between at least one of the extensions of the first I-beam and at least one of the extensions of the second I-beam.

Claims 34 and 35 were previously canceled.

36. A roadway guardrail system, comprising:
a guardrail;

at least one support post having an upper portion and a lower portion, the upper portion having a lower end and the lower portion having an upper end;

the upper portion being coupled to the guardrail and the lower portion being insertable into the earth;

the lower end of the upper portion being coupled at the upper end to the lower portion by a rotatable coupling that rotates about an axis when the post is impacted in a direction that is generally parallel to the guardrail, the axis being substantially perpendicular to the guardrail, the post exhibiting a high mechanical strength in the direction of the axis; and

the rotatable coupling having a frangible connection for maintaining the upper portion in an upright alignment with respect to the lower portion.

sub H1 > 37. **(Twice Amended)** A breakaway guardrail post for highway crash control systems comprising:

an upper post member having a weak impact axis and a strong impact axis;

a lower post member disposed beneath and spaced apart from said upper post member;

a connecting joint member having a first end and a second end, said first end of said joint member connected at said first end by a first fastener to said upper post member and connected at said second end by an attachment to said lower post member, said first fastener having a first failure strength less than a second failure strength of said attachment.

38. **(Amended)** The post of Claim 37 wherein said first fastener further comprises: a first connector having a first failure strength, and a second connector having a second failure strength, said first failure strength greater than said second failure strength such that upon an impact force being applied along said weak impact axis, said second connector fails and said upper post member rotates about said first connector.
